918

Previous references

File No 458

1907

Serial Nos. 1 to 1

(Municipal)

Later references

Pol 306 - 08

Pol 58-12 (1, 3, 4, 6, 9 12 & 14).

dss (110 - 22) 5=6

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. 16 - 24

Part B for May 1908

SUBJECT

Revised Estimate for the Water Supply of Manchar

1 From Secy, PWD No 222/1659 dt 6/5/08 forwards for confn Copy of two dockets of the Exe Engr, Water Supply & Sewerage Divn, Conr sanction for the revised Estimate for the Water Supply of Manchar Town at Rs 22,540 & stating that the annual maintenance charges estimated at amount to Rs 3,250/- with the views of the Coll of the Dist thereon

2. To the Collector No 9578 dt 23/5/08 Calls for Copies of the Report on the Estimate & of the Abstract, revised Estimate for reconsideration &c

3 From Dy No 3511/2336 dt 31/5/08 Has two Copies of the Estimate & Report called for on the

G. R. S. 56

4 To do do Directr. of Agrl. & Ind. Calls for Copy of Govt Resolns & Communicates the Orders

651

GRS 11] 1907 8

GENERAL AND REVENUE SECRETARIAT

Municipal

NOTES

File No 658/07

FILE HEADING

Revised estimate for the Water Supply to Harihar.

From Secy to Govt of H H the Maharaja of Mysore, The Chief Engineer of Mysore P W D

No 222/1659 Dated 6/3/08 Received 9/3/08

Diary No 6518	Enclos	Spare Copies	Serial No 1

BRIEF ABSTRACT OF LETTER

Forwards for information copy of his letter Docket No 221/1658 dt 6 3 08 to the Ex Engr, Water Supply and Stores Division, inviting Sanction for the revised estimate for the Water Supply to the Harihar town amounting to Rs 22,548/ and stating that the Annual maintenance charge now estimated to amount to Rs 3250/ again will be borne by the Municipal & District Funds in equal proportion

NOTES AND ORDERS

Draft docket requesting the C H E to forward to this Office copies of the Report on the revised estimate and the Abstract Revised estimate submitted

Issue. On receipt the file shall be laid before the Secretary to the Hon

Notes — First sheet HCL 16 3 08

GPB— 30 000—20 3 08 DR 20/

G. R. S. 12]
General and Revenue Secretariat.

File No. 458 of 1907

Serial No. 2

To the Chief Engineer. No 957 dated 26-3-08
Calls for copies of the Report on the revised estimate and of the Abstract revised estimate for record in this office.

R Engr No 351/2336 dated 31-3-1908
Copies of the estimate referred to in the above
Don't you think it for the information
of Councillor.
[illegible]
[illegible]
[illegible]

18

1

W4D

Mysore Public Works Department

No 221/1658

Central Office,

Dated Bangalore, 6th March 1908

From,

The Secretary to Government

of His Highness the Maharaja of Mysore,

Public Works Department

To,

The Executive Engineer,

Water Supply and Stores Division

Has the honor to return the revised estimate for water supply to the town of Harihar, received with his No 30 of the 18th January last, duly sanctioned by Government for Rs. 22,848 and to inform the Executive Engineer, that the order for Jewell Filters can now be placed

2 The annual maintenance charges now estimated at Rs. 3,250 will as already ordered in Government Proceedings No 9660-3/M1 (368-04)-7 dated 20th April 1907 be borne by the Municipal Board of Harihar and the Chitaldrug District Board in equal proportion

(sd) T Singaravelu,

For Secretary to Government

of Mysore, P W.D

458-07

S/1 222/1659 Dated Bangalore, 6th March 1908

Copy of above forwarded to the Secretary to Government of His Highness the Maharaja of Mysore, General and Revenue Departments for information, with reference to Government proceedings No 9660-3/M1 (368-04)-7 of 20th April 1907

T Singaravelu

2408

GRS 26]

File No 07
Serial No 2

Diary No of letter replied to 6518

No 9578-
ml 1456-07-2
dy 24 3 08

General and Revenue Secretariat
(Income)
, the 190

To

The Secy to the Govt of
HH the Maharaja of Mysore,
Public Works Dept

Date of issue 24.3.08

Signed by GMHR

His Memo No 222/1659 of the 6th March 1908 informing that a revised estimate for the Harihar Water Supply amounting to Rs 77,848 has been Sanctioned

---

Has the honour to request the Secy to be so good as to forward Copies of the Report accompanying the revised estimate in

---

SUBJECT

in question and of the Abstract Revised estimate for record in this Office

By order

[illegible]

for Dft Secy

[illegible]
16-3 08

List of enclosures

Copied by [illegible]

Examined by [illegible] 21/3

MGCPB—3C,000—16 2 05

4 7 3

Mysore Rail Department
Central Office
Bangalore 31st March 1908

Encl 2 No. 351/2336

D7296

From,

W. McIntelum Esq in Lch,
Secy to the Govt of Mysore
Rly Dept.

To,

The Secretary to the Govt of Mysore
General & Revenue Depts

Sir

In compliance with your No. 95,78,1/Mb 458-07-2 of the 24th instant, I have the honor to forward for record in your office two copies of the revised Abstract Estimate & Plan for mounting of Rs 22,848 for the Shimsha Water Supply and of the report submitted with it.

I have the honorable,
Sir,
Your most obedt Servt

W McIntelum

in Secy to the Govt
of Mysore Govt

in question and of the
Abstract Revised estimate
for record in this office.

By order
[illegible]
for Dy Secy

[illegible]
16-3-08

List of enclosures

Copied by [illegible]

Examined by [illegible]

Ml 458-07 [illegible]

Mysore Revenue Department,
Central Office,
Bangalore 31st March 1908

D7296

Encl

No. 351/2336

From,

W. McIntelum Esq. m.a.c.s.
Secy to the Govt of Mysore
P.W. Dept.

To,

The Secretary to the Govt of Mysore
Genl & Revenue Depts

Sir,

In Compliance with your No. 9578/Ml 458-07-2 of the 24th instant, I have the honor to forward for record in your office copies of the revised Abstract Estimate & Contract for -mounting Rs 22848 for the Kaveri Water Supply and of the reports connected with it.

I have the honor to be
Sir
Your most obedt servt
W McIntelum
for Secy to the
Govt of Mysore

Water Supply of Town Reservoir

Revised estimate of the probable cost of Pumping Machinery including erection &c. for water supply to the Town of Hartlepool

Particulars	Nos	Rate	Cost
Cost of Engine and Pump	Nos	£ s	2606
Cost of fountain & suction pipes	do	do	206
Compensation for mill	do	do	500
Sundry repairs to mill &c	do	do	250
Cost of erecting a shed for Engine and feeder room	do	do	1000
Cost of erecting Engine and steel pumping	do	do	250
Total			4,800
Contingencies at 5 per cent			240
Grand Total			5,040

Revised estimate of the probable cost of Rising main for water supply to the Town of Hartlepool.

Particulars	Nos	Rate	Quantity	Cost
Materials				
1st pipes 2960 Aff at 329 pipes of 3/8" thick				
1 1 cast 1 yr 21 Nos per pipe	Pipes	9 2 -	329	3002
2nd pipes 660 Aff at 95 pipes of 1/32" thick				
1 1 cast per pipe	Pipes	6 12 -	95	662
3rd pipes 350 Aff at 39 pipes of 3/16" thick				
3 yrs 10 cast per pipe	Pipes	5 8 -	39	215
Cast Iron Flange valves	Nos	55	3	165
" " Nos do	do	20 - -	1	20
" Stop do	do	46 - -	2	92
" Nos do	do	20	1	

I

Rough estimate of the probable cost of one Balancing tank for Harihar (Capacity 17500 Gs

Items of work	Rs	Rate		Quantity	
Earthwork excavation	cft	— 3	0	65	
Concrete in Surkie mortar	cft	— 3	0	1224	
Brunt brick in Surkie mortar	cft	— 3	6	196	
Plastering with cement ½ thick	Sqr	5	0	11.72	
Plastering with Surkie mortar	do	3	0	8.75	
Brunt stone slabs 3" thick ordinary	Sft	— 6	0	176	
Making seam all round the platform	Rft	— 4	0	32	
Roofing with corrugated iron sheets complete	Sqr	18	0	7 00	
Wrought iron pipe 1½ dia	Rft	— 6	6	100	
Cost of making trusses including material charges &c	No	15	0	1	
Rack work with bolts and perforated iron sheets	Sft	1	0	15	
Iron ladder	No	12	0	1	
Pipe connection to service reservoir with pucka packing &c	Mas	0	5	1	
Wooden shutter with teak-wood frame &c complete	do	do		1	
Compensation for lands	do	do		1	
Total Rupees					
Contingencies at 5 per cent					
Grand Total Rs					
Cost of 4 Balancing Tanks = 4 x 1190 = Rs					

Estimate of the probable cost of erecting Two 50 Pressure Jewell Filters for water supply to City Corporation of Madras.

Items	Cost
Cost of two 50 Pressure Jewell Filters as tendered by Jewell Filter Company	5,400
Cost of 5 tons of sand	100
Cost of carriage to site and erection of Jewell Filters with fittings to do	250
Total	5750
Contingencies at 5 per cent	288
Grand Total Rupees	6,038

General Revised Abstract

Sub Heads	Amount of Estimate
Cost of pumping machinery as per schedule attached	5,040
Cost of rising main ——— do ———	5448
Cost of distribution main ——— do ———	1,562
Cost of 4 Balancing tanks ——— do ———	4,760
Cost of erecting Jewell Filters ——— do ———	6,038
Total Rupees	22,848

Cost of Pumping machinery & Engine for the Madras Water Supply & Drainage Co.

Water Supply & Storage Dr

Estimate of the probable cost of Annual
Maintenance of Kaveri water supply
Working Expenses

Details	Months	Amount
1 Driver @ Rs 30/- per month	12	360
1 Cooly @ Rs 7/- do	do	84
1 Fitterman @ Rs 10/- do	do	120
1 Cleaner @ Rs 8/- do	do	96
Oil (Lubricant) waste @ Rs 20/- per month	do	240
Petroleum at the rate of ½ pint per H.P per hour (½ as a gallon)	do	1647
Maintenance Charges @ 2½ on cost of pipes and Reservoir at 2½ per cent of material cost	L.S	400
Alum for Jewell Filters at 2 grains per gallon for 6 months and 1 grain for the next 6 months	24 Tons	260
Total Rs		3197
or Say Rupees		3,250

In any case
if necessary as

Supt & Ranganadhan Iyengar
Executive Engineer
Water Supply & Storage Dr

In the Supply

Compensation ... Statement showing

estimate of water supply to the town

Serial No.	Sub Heads	Amount as per Original estimate	Amount as per Revised estimate
1	Cost of pumping machinery and fittings will be including water	5040	5,040
2	Cost of rising main	4130	5448
3	Cost of distribution work	2092	05 62
4	Cost of four Balancing tanks	5528	4,764
5	Cost of erecting Gravel Filters		6038
	Total	16790	22,648
	Deduct less from more		
	Net excess Rupees		

Bangalore
January 1904

a/c Plan Quantum.

II

Difference between Original & Revised Abstract Harihar

Difference		Remarks
More	Less	
318.		Excess due to increased length of main and also higher rates for C.I pipes as present prevailing rates.
	530	Saving due to lesser rate for galvanized pipes and slight alteration in distribution pipes
	768	Savings due to alterations in secondary mains with view to effect savings
6038		That provided on original estimate but provided now as per orders of the Chief Engineer
1356	1298	
278		

Exy V Ry. assistant Engineer,
Executive Engineer
Water Supply & Sewerage

12

Report to accompany the estimate for the Water supply to the town of Standerton

~~Reference:~~

~~Chief Engineer~~

Report

General —

The town of Standerton is situated on the bank of the Impalahala and is one of the frontier towns in the Transvaal. It has been subjected for years to annual visitations of cholera due it is said to the pollution of our water by the discharge of sullage here. The present scheme for the water supply of the town aims at putting a stop to these annual visitations of cholera by giving the town a full and sufficient supply.

Source of Supply

The water will be drawn

from the Tunga. The site for the intake is suggested below the masonry bridge at the half way between the Railway bridge. The site is admirably suited for the pumping well as the banks are steep & well defined. The river here is also deep, & there is always a large body of water at all times of the year.

Pumping well —

It is proposed to utilise an existing well belonging to a land-holder. The owner of the well has agreed to transfer to the Govt. all his rights to the well if the Govt. pays him a lump sum of Rs 500/— and the Municipality gives him 2000 gallons of water per day for his garden. The Municipal Council is agreeable to this proposal. The well is a fine, pukka masonry well & will do very well for the purpose of the Water Supply. The tunnel connecting it with the river is 2'x 2' & is also in good Condition.

2. Oil Engine:—

The pumps will be worked by an oil engine of 7½ B H P

calculation for H.P of oil Engine. ——

The statical head including friction from the well 73 feet

Actual head in the pump
is 120 feet
Allowance for friction in pipes to be in the pipes (50 per cent of the actual head) 20 feet
Total head . . . . 133 ft
Quantity of water raised per minute = 100 gallons
H.P. $\frac{100 \times 10 \times 133}{33000}$ = 4, H.P
The brake H.P. of engines required therefore 7½ a size available in the market.

An oil Engine is proposed instead of a Steam Engine on account of its simplicity, economy & maintenance charges.

3 Jewell Pressure Filters

The water from the Engine will be pumped through a pair of 60 pressure Jewell Filters
The cost of the filters complete will be Rs 6,038/-
These filters are very compact & are very easy to manipulate & keep in good condition
They will be contained in the same building as the pumps
They are coming in extensive use in this country & have been found the very efficient (~~please see note attached~~). When the pure water is actually pumped as a further precaution we could easily permanganate every particle of water pumped by means of a simple attachment. In fact the filters themselves (one) for the sake of safety has [illegible]

laid. They are just the fellow head-quarter for such a race [illegible] Hamilton (Note for the use, owing to the very little attention they require beyond what the ladies can bestow on them daily. Unlike the old sand bed filters they do not depend on the tides, however as the Guild, the Group of Cooks & there fore cannot so many as a dozen to maintained for the pumps

The Pump main:—

The pump main will consist of cast iron pipes 4" in diameter & is 2960 feet long It will be provided with a non-return valve near the Engine thus enabling the use of the pump main as a distributing main also.—

4 Distribution.—

In the purpose of the present scheme, the town will be roughly divided into four blocks and each block will be served by a balancing tank 20' x 20' x 7' Each of these tanks will be provided with four taps (as shown in the accompanying drawing) from which the people can draw their water The capacity

N 10:— It will be a days supply for the present population.

of the four balancing tanks is 70,000 gallons which is equivalent to a days supply, so that the town will have the supply of water even when pumping is stopped for a full day for repairs &c.

The design of the tanks has been somewhat modified with the result that there has been a saving of Rs 768/- in this sub-head.

Statement 5 The distant portions of the town will be supplied by 10 additional fountains as shown in the plan.

6 All the details of the scheme are given in the statement of construction details

7 The total cost of the scheme as now estimated amounts to Rs 22,848/- & working expenses & maintenance amount to Rs 3,250/- per annum.

The comparative statement given in a tabular form the provisions under different sub heads of as compared with the former estimate. It will be seen that the excess over the former estimate comes to Rs 6058/- which is practically the cost of the Jewell filters

A. Bangaru

V. i. Secretary

Chief Engineer for Public Works
Madras

ab D

17

S 28]

File No 455-07
Serial No 1/4

Diary No of letter replied to 7296

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT
(Genl)

the 190

Date of issue 14-5-08

Signed by [illegible]

READ— Memo No 222/1659 dated the 6th March 1908 from the Secretary to Govt in the P W D, forwarding for information with reference to G O No 9660-3/Rel 368-06-7 dated the 20th April 1907, a copy of the docket

~~ORDER THEREON—~~ No 221/1658 dated the 6th March 1908 to the Executive Engineer, N. to Supply and Stores division conveying sanction ~~for~~ to the revised estimate for the Water Supply to Harihar town amounting to Rs 22,845/- stating that the annual Interest

over

SUBJECT

charge for estimated to amount to Rs 3250/- will be borne by the Municipal and District Boards in equal proportion.

2. Letter No. 351/2336 dated the 31st March 1905 from the Same Officer, submitting, as called for by this Office, Copies of the revised estimate referred to above and the report thereon.

Order thereon No. 11909-10 — ml 458-07 — 8/14-5-08

Recorded and Communicated to the President of the Municipal and District Boards, Chittaldrug district.

9/5/08
for Secretary
9/5/08

To

The Chief Engineer and Secretary to Govt in the P.W.D.

President of the Municipal and District Boards, Chittaldrug district.

8/14/5